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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,222	01/16/2002	Steven Doe	1076.41091X00 4398	
20457 759	57 7590 10/18/2004		EXAMINER	
	TERRY, STOUT & F	WU, XIAO MIN		
1300 NORTH SEVENTEENTH STREET SUITE 1800			ART UNIT	PAPER NUMBER
	VA 22209-9889		2674	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exhibitions of sime may be available under the proteinion of 3 CFR 1-136(a). In no event, however, may a reply be timely filled If the period for reply specified above is less bland their protein of 3 CFR 1-136(a). In no event, however, may a reply be timely filled If the period for reply specified above is less bland their (20) days, a, reply within the statuted primitium of thin; (30) days will be considered timely. If the period for reply specified above is less bland their protein of the period for reply is period for reply in specified above, the maximum and their protein of the period for reply is period days. If the period for reply specified above is less bland their protein of the period of the communication. If the period for reply specified above is less bland their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply specified above is less than their protein. If the period for reply sp		Application No.	Applicant(s)				
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1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/13/2003. 1 Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152) Other:	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Attachment(s)	_					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/13/2003. 5) Notice of Informal Patent Application (PTO-152) 6) Other:	1) Notice of References Cited (PTO-892)						
	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/13/2003.	5) D Notice of Informal I					

Application/Control Number: 10/046,222

Art Unit: 2674

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 6-7, 9, 14, 16-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Edgar (US 2002/0176113).

As to claims 1, 14, 16 and 17, Edgar discloses a display device to display data corresponding to a colored image with relatively dark and light regions so as to provide a visual representation of the image, without being illuminated by a separately energisable illumination source, configured so that the relatively dark regions are displayed lighter than indicated by the image data whereby to compensate for image darkening in the visual representation of the image produced by the display device. For example, Edgar discloses that the darker image (shadow image) is to be brighten of the detail in the darker region (see page 2, pp [0029], page 6, pp [0030], also see Fig.6).

As to claim 2, Edgar discloses filtering of the image so as to produce filtered image data wherein the relatively dark region is represented by the filtered data which corresponding to a region which I slighter than the relatively dark region (page 7, pp [0069]).

As to claim 3, Edgar discloses to filter the image data according to a predetermined transfer function (page 6, [0061-0065]).

Application/Control Number: 10/046,222

Art Unit: 2674

As to claims 4, 6, Edgar discloses the transfer function is selectively alterable according to settings made by a user (page 7, lines 5-6, left column).

As to claim 7, Edgar discloses that the enhance image is made in pixels basis.

As to claim 9, Edgar discloses the display is liquid crystal display (page 8, [0078]).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edgar (US 2002/0176113) in view of Shimomura et al. (US Patent No. 5,406,305).

As to claim 5, it is noted that Edgar does not disclose a photodetector for detecting ambient light levels, and the transfer function being selectively alterable in accordance with the level of ambient light detected by the photodectetor. Shimomura is cited to teach a LCD display device including a photodetector for detecting ambient light levels, and the luminance of the display being selectively alterable in accordance with the level of ambient light detected by the photodectetor. It would have been obvious to one of ordinary skill to have modified Edgar with the features of the photodetector as taught by Shimomura so that the luminance of the display can be adjusted in different levels of the ambient light.

As to claim 10, Shimomura discloses a selectively energisable light source (7) for illuminating the display.

Art Unit: 2674

Art Unit: 26/4

5. Claims 8, 11-13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edgar (US 2002/0176113) in view of Tanaka et al. (US Patent No. 6,614,498).

As to claims 8, 11-13 and 15, it is noted that Edgar does not specifically disclose that the LCD is a reflective type LCD used for videophone or PDA. Tanaka is cited to teach a LCD display which can be a reflective type of LCD (col. 13, lines 30-31) and can be used for a video phone (col. 16, lines 17-18). It would have been obvious to one of ordinary skill in the art to have modified Edgar with the features of the reflective type of LCD used for a video phone as taught by Tanaka because reflective type LCD can save more power.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 6,094,185, 6,362,822, 6,481,851, 6,611,249, 2004/0071366 are cited to teach a display device with a backlight or with a control of dark image.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiao Wu whose telephone number is (703) 305-4721.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Shalwala Bipin**, can be reached on (703) 305-4938.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Art Unit: 2674

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377

xw

October 15, 2005

XIAO WU PRIMARY EXAMINER ART UNIT 2674